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NEW BOOKS.

New Analytic Geometry. By PERCY F. SMITH and ARTHUR SULLIVAN GALE. Boston: Ginn and Company. Pp. 342. $

The authors of this book have recognized the importance of "setting up" and studying functions by their graphs. The student is carefully led through the subject, being, for the most part, given just sufficient aid to make his own way. He is taught analytic methods and to formulate his own rules.

Durell's Arithmetics. Elementary. By FLETCHER DURELL and ELIZABETH HALL. Pp. 354. 48 cents. **Advanced.** By FLETCHER DURELL. Pp. 458. 64 cents. New York: Charles E. Merrill Company.

These two books taken together make an extensive treatment of over 800 pages and contain a great profusion of applications of number to concrete things in the various industries and departments of study. Effort has not only been made to apply number to things but to give the student a grasp of the processes. The weakest point would seem to be the definitions, and here is where many if not most arithmetics are at fault.

Intercollegiate Debates. Volume II. Edited by EGBERT RAY NICHOLS. New York: Hinds, Noble and Eldredge. Pp. 832. $2.00.

This book might as well have been named "Inter-High School Debates" for the language is simple and the arguments are clearly explained. Six of the discussions elaborate the brief treatment of the same questions in the earlier book, especially along the line of the points that have assumed a different complexion in contact with public controversy. The questions considered are of present-day interest and importance and the book is one that everyone interested in debates will want to read.

Old Paris. Its Social, Historical and Literary Associations. By HENRY C. SHELLEY. Boston: L. C. Page & Company. Pp. 354. $3.00.

The author is not giving in this volume a description of modern Paris, but, as the title indicates, of old Paris, for the inns, pleasure gardens, theaters, etc., described and illustrated have all been demolished to give way to modern Paris.

The city has for long years been one of the most attractive of the European capitals to the traveler and pleasure seeker, and the secret of the charm which captivates all visitors was according to Walpole that the Parisian lives in "Perpetual Opera" and "persists in being young when he is old." The life there is intensely social and hence the inn, shop, theater, club, etc., have played a large part in the life of the city, all of which is described by the author in a very pleasing manner and with a profusion of excellent illustrations. In the descriptions of the salons which were somewhat peculiar to Paris much attention is given to the literary associations.

The Raphael Book. By Frank Roy Fraprie. Boston: L. C. Page & Company. Pp. 352. $2.50.

Perhaps there is no more lovable character in the history of art than Raphael and the reason for this undoubtedly lies in the fact that while he lived at a time when morals were low he never put on canvas anything but what represented the tender, gracious and beautiful. His pictures portray such emotions as mother love, divine aspiration, chaste and lovely themes.

This volume is an account of his life and place in the development of art, together with a description of his paintings and frescos. It is a book that is splendidly illustrated and will be read with pleasure and profit.

Industrial Mathematics. By Horace Wilmer Marsh. New York: John Wiley and Sons. Pp. 477. $2.00 net.

The aim of the author of this book is to make the student going into manufacturing shops proficient in the various mathematical operations by employing them in computation with technical formulas using actual commercial data.

Every chapter in this book presents the fundamental principles of the chapter topic, illustrated by numerous examples and applied in many industrial problems with actual commercial data.

The problems are of four kinds:

(1) Problems with complete data,

(2) Problems requiring measurement and computation of models,

(3) Problems requiring measurement and computation of materials and machines in shops and laboratories,

(4) Occasional problems with data incomplete, so that students may appreciate real conditions.

If you wish a text-book covering the fundamentals of arithmetic, industrial computation, and the simplest elements of algebra and trigonometry, you will select this book.

It contains a great wealth of material.

A Source Book of Problems for Geometry. By Mabel Sykes. Boston: Allyn and Bacon. Pp. 372.

The author of this book considers that one great object in the study of geometry is to lead to an appreciation of form and one who works through this book carefully will gain much in that respect. For students of design it would prove a very valuable study.